

-3 -

TORMASOV *et al.*
Appl. No. 09/918,031***Amendments to the Claims***

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (currently amended) The system of Claim ~~[[4]]~~ 21, wherein each virtual computing environment has an independent root file system.
6. (canceled)
7. (currently amended) The system of Claim ~~[[4]]~~ 21, wherein resources of the operating system kernel belonging to different users are separated on ~~the~~ a namespace level.
8. (currently amended) The system of Claim ~~[[4]]~~ 21, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.
9. (currently amended) The system of Claim ~~[[4]]~~ 21, wherein the virtual computing environment comprises processes and files of the operating system kernel.
10. (canceled)

Atty. Dkt. No. 2230.0400001/MBR/GSB

-4 -

TORMASOV *et al.*
Appl. No. 09/918,031

11. (currently amended) The method of Claim ~~[[10]]~~ 22, wherein each virtual computing environment has an independent root file system.

12. (canceled)

13. (currently amended) The method of Claim ~~[[10]]~~ 22, wherein resources of the operating system kernel belonging to different users are separated on the a namespace level.

14. (currently amended) The method of Claim ~~[[10]]~~ 22, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

15. (currently amended) The method of Claim ~~[[10]]~~ 22, wherein the virtual computing environment comprises processes and files of the operating system kernel.

16. (canceled)

17. (currently amended) The computer program product of Claim ~~[[16]]~~ 23, wherein each virtual computing environment has an independent root file system.

18. (canceled)

19. (currently amended) The computer program product of Claim ~~[[16]]~~ 23, wherein resources of the operating system kernel belonging to different users are separated on the a namespace level.

20. (currently amended) The computer program product of Claim ~~[[16]]~~ 23, wherein resources and objects of one virtual computing environment are not visible to processes and objects of other virtual computing environments.

21. (new) A computing system comprising:
a physical server having a single operating system kernel;

Atty. Dkt. No. 2230.0400001/MBR/GSB

- 5 -

TORMASOV *et al.*
Appl. No. 09/918,031

a plurality of isolated virtual computing environments running on the physical server, each virtual computing environment being functionally equivalent to a physical server,

wherein the virtual computing environments do not require emulation of hardware resources and do not require dedicating memory;

each virtual computing environment having plurality of objects associated with it and supported by the kernel, with each object having a corresponding identifier,

wherein at least some of the identifiers are the same for objects associated with different virtual computing environments, and

wherein at least some objects are simultaneously associated with multiple virtual computing environments;

wherein objects of different virtual computing environments are isolated from each other even when they have the same identifiers; and

wherein the kernel restricts access to objects using identifiers of one virtual computing environment from another virtual computing environment.

22. (new) A method of operating a computing system comprising:

starting a physical server having a single operating system kernel; and

initiating a plurality of isolated virtual computing environments on the physical server, each virtual computing environment being functionally equivalent to a physical server, each virtual computing environment having plurality of objects associated with it and supported by the kernel, with each object having a corresponding identifier,

wherein at least some of the identifiers are the same for objects associated with different virtual computing environments,

wherein at least some objects are simultaneously associated with multiple virtual computing environments,

wherein objects of different virtual computing environments are isolated from each other even when they have the same identifiers;

Atty. Dkt. No. 2230.0400001/MBR/GSB

-6 -

TORMASOV *et al.*
Appl. No. 09/918,031

wherein the virtual computing environments do not require emulation of hardware resources and do not require dedicating memory, and

wherein the kernel restricts access to objects of one virtual computing environment from another virtual environment when the same identifier is used for access.

23. (currently amended) A computer program product for operating a computing system, the computer program product comprising a computer useable medium having computer program logic recorded thereon for controlling at least one processor, the computer program logic comprising:

computer program code means for starting a physical server having a single operating system kernel; and

computer program code means for initiating a plurality of isolated virtual computing environments on the physical server, each virtual computing environment being functionally equivalent to a physical server, each virtual computing environment having plurality of objects associated with it and supported by the kernel, with each object having a corresponding identifier,

wherein at least some of the identifiers are the same for objects associated with different virtual computing environments,

wherein at least some objects are simultaneously associated with multiple virtual computing environments,

wherein objects of different virtual computing environments are isolated from each other even when they have the same identifiers;

wherein the virtual computing environments do not require emulation of hardware resources and do not require dedicating memory, and

wherein the kernel restricts access to objects using identifiers of one virtual computing environment from another virtual environment.